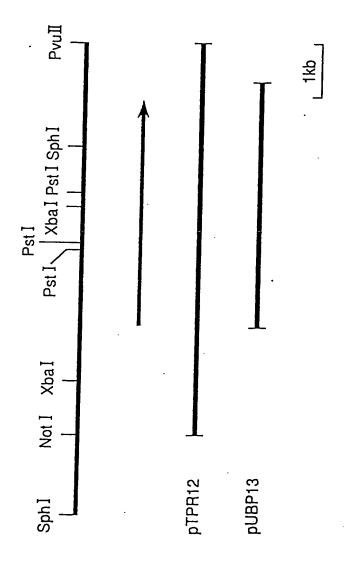
Fig. 1



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Fig. 2

170 175 180

Asp Gly Ser Gly Val Val Val Ala Val Leu Asp Thr Gly Val 5'-GAT GGT AGT GGT GTT GTT GCA GTA CTT GAC ACG GGA GTT-3'

PRO-1F 5'-GGW WSD RRT GTT RRH GTH GCD GTD MTY GAC ACB GG-3'

Fig. 3

365 370 375

His Gly His Gly Thr His Val Ala Gly Thr Val Ala Gly Tyr 5'-CAC GGT CAC GGA ACT CAC GTA GCT GGA ACT GTT GCT GGT TAC-3'

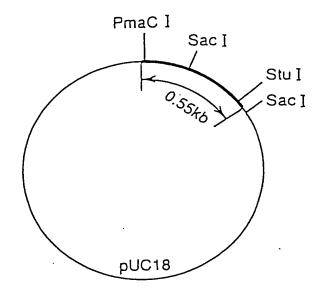
PRO-2F 5'-KST CAC GGA ACT CAC GTD GCB GGH ACD GTT GC-3'
PRO-2R 3'-GTG CCT TGA GTG CAH CGV CCK TGH CAA CGM CSA-5'

Fig. 4

590 595

Ser Gly Thr Ser Met Ala Thr Pro His Val Ser Gly Val Val 5'-TCT GGA ACT TCG ATG GCT ACT CCA CAT GTC AGC GGT GTC GTT-3'

PRO-4R 3'-CCD TGV AGB TAC CGD WGA GGB GTR CAV YSG CCH C-5'



F i g. 6

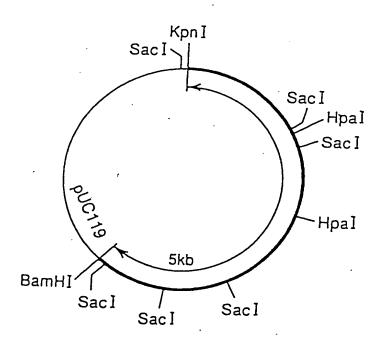


Fig. 7

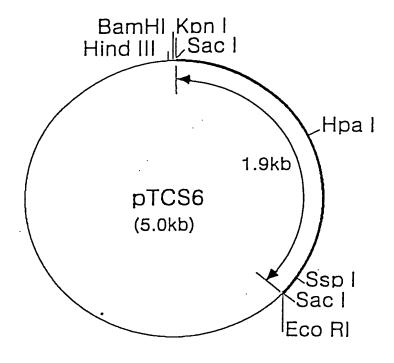
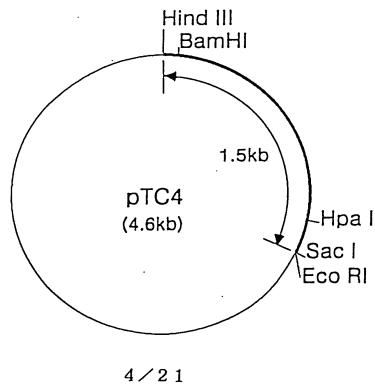
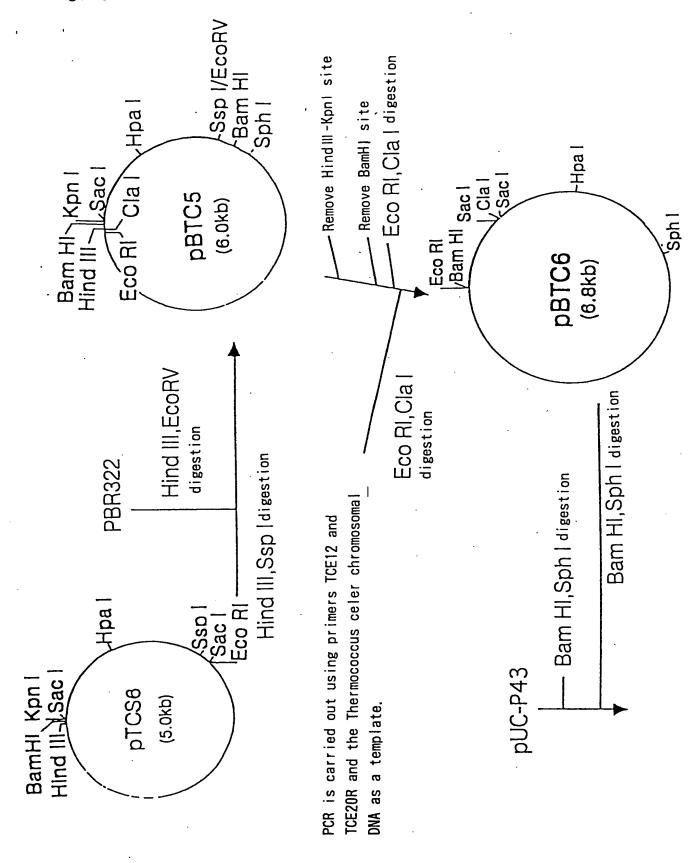


Fig. 8





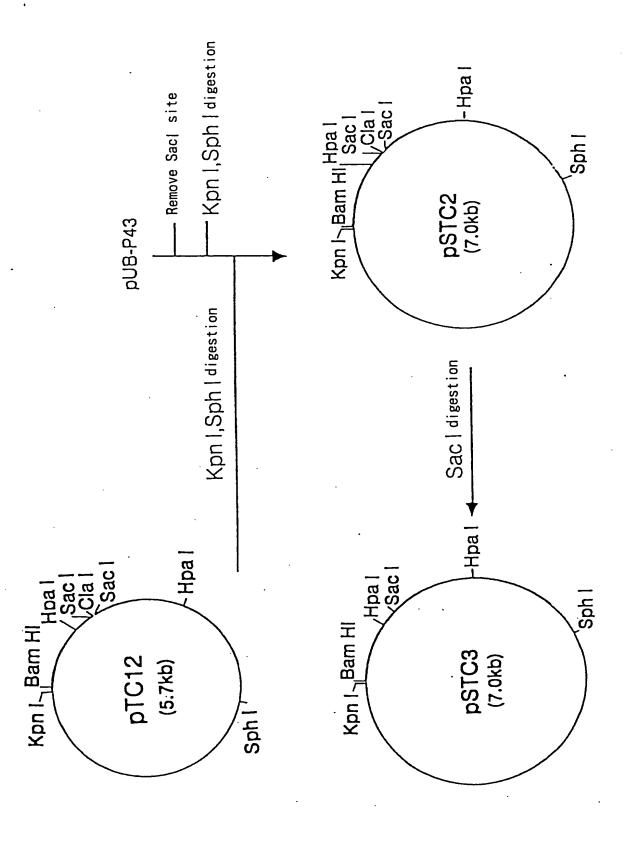
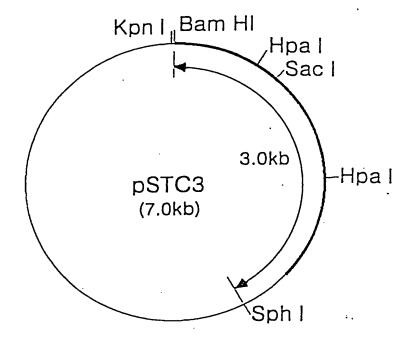


Fig. 10



F'i g. 11

50 LPNQQVVTKE VVRNNAVQQK MRGKKVWISL	100 ILDENRVLNM LRLMGAQVKY MSAAKKKDVI	150 TKEPSLEPKM QEDYKVQVDD DHVAHAYAQS	200 ITPDGRRKII GKVIGWYDAV VAGGASMVPS	250 ESTGLMEYVV 	300 FYPVLLVNST
40 VSSENSTTSI GTALAAPVKP	90 KTELEKLGAE YGDRDRAVKV IVGFKQTMST	140 SPPIVEKDVK NTRVSGIKFI KDPSVAYVEE	GVDPINHIPFLS GIDANHIPDLK GIDSSHIPDLK	240 FQVASGLTLN 	290 DLNFDGDQED
30 VHFVSAETPP LALVLVGLLA	80 KTKEGKLEEA EVDTVIMFGS AGKSNGEKKY	130 KAWLNREVKL AGMIDTGYFG LNEKAVKELK	180 SGVVVAVLDT SGVVVALVDT SNVKVAVLDS	230 VNGTLIINTT 	280 HFGLLPERYF
20 IAIMLLSVVP MKRLGAVV	70 KGQPNMVLII KKVQRMNWNQ AFGSTSSAQA	120 KELNYISSLE KIKARDLLLI FKYVDAASAT	170 QFIQEF <mark>GYDG</mark> TVWN <mark>S</mark> L GYDG PALH <mark>S</mark> Q GY TG	220 VDTSFSFSKV 	270 GNITSANGIY
10 MNKKGLTVLF	60 VSQAALNAIM NYGLLTPGLF LFALALIFTM	110 LLVKIKPEKV SYKIIPAVAV SEKGGKVQKQ	160 YNSTWVINAL ATSVSQIGAD VPYGVSQIKA	210 EWKDFTDEGF NGRSTPYDDQ ETNPFQDNN-	260 KTVYVSNVTI
PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN

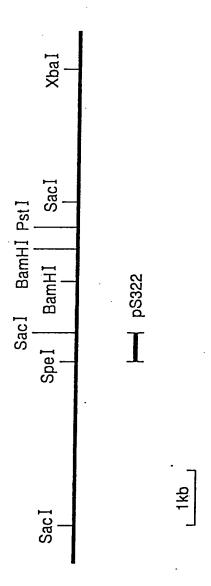
350 PLNYVLAEID 	400 GEWEVFSRLY 	450 CMTYAATHGA CVDWVVQNKD CIEWAIANNM	I AAGNEGP GI V AAGN<mark>S</mark>GP NT A AAGNEG TSG	550 GFYYFPAYTN 	600 FM S PINDYYTKA S
340 DVAVFSYYYG 	390 DAWDWLSMYS S Q S I	440 GRGSMWDTTE GSGSVSTTTA GSGQYSWTTN	490 LTEKY <mark>GVV</mark> FV AWDA-GIVVC AVAS-GVVVV	540 SQALGYPDYY 	590 S IE MWIGGAD PRASGTSMGT T IE GNKYGA-
330. VPLGQYNVTY 	380 GTVAGYDSIN GIVAGTGSVN GTVAALINN	430 IMAIR <mark>VL</mark> RSD LVGVKVLGAD LYAVKVLGAD	480 TDPESVAVDE TDSESQAVNN SAALKAAVDK	530 AVPINVGVYV DSNDN DSSNQ	580 VVAPG YGIYS VVAPGVDIIA VMAPGVSIQS
320 TDLDYDFTDE 	370 DGH <mark>GHGWHVA</mark> GHGWHVA S HGTHVA	420 T <mark>W</mark> QGVAPGAQ -YIGVAPGAK GWLGVAPSAS	470 IGGNAPYLDG IGSSQSS-DG IGGPSG	520 ATKATTVGAA ASKVTTVGAV YPSVIAVGAV	570 Pridgei <mark>ke</mark> n Ptadgrike Peld
310 GNGYDIAYVD 	360 PNGEYAVFGW 	410 GWDYTNVTTD 	460 DVISMS KYGIRVINLS DVINMS	510 NI <mark>VGSPG</mark> V YTVGSPAA SSSTVGYPG	560 VRIABFSSRG IASFSSRG RASFSSVG
PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN

650. MWEESPYTG DIVAPKEIAD MKE-SES	700 YSDFAEYLGV HTFDVSGATF	750 KPFVSGSVIL YYNPTAGTWT	800 LNTIVIPEKF TTDTQTFTGS	850 DYGLYRPDGM DPNGNLVDRS	900 VRIYGVEITP YYG*	950 YNASVESVGD
640 IIKKV ije SG A ALIE TA S IJE NT	690 PIVDHWADKS GSVADKGSAT	740 FEIYATEPWI TAYYGFEKVG	790 PTTPVIEDEI NPNPNPNPTP	840 DVLYAMTTYW SYNDLDLYLY	890 FAPLYESGFL WADYQLKAVV	940 ATLIPIGLGT
630 KAEGIYYNPD PSWTPDKVKT PNWTNTQVRS	680 ILKAINGTTL YDDYAKLTFT *	730 KYVGDTEYRT PNGNEVDYSY	780 LYVGRIIIDD SLSQSGGGNP	830 HHFFTVPEGV KITGDLTFDT	880 NWELVWTGFN FLVYAYRTYG	930 NITNIYAPIN
620 GVVATLLISGA GVAALILIQAH GAAALILISKH	670 GLVNVTKSWE GRVNVYKAIK GLINVQAAAQ	720 SIPDIVEWHI SSDIDLYLYD	770 KYDVEGLEPG NYQVDVVSDG	820 YDINGPEMVT FTMNVNSGAT	870 PAAVSNPMPG YANPAPGTWT	920 DTNTEFSIEF
610 GTSMATPHVS GTSMATPHVS GTSMASPHVA	660 QKYTELDQ <mark>C</mark> H IA <mark>VG</mark> A FY VG K	710 DVIRGLYARN VTATLYWDTG	760 ENNTEFVLRV VKVVSYKGAA	810 TPENNYTLTW VNDYWDTSDT	860 FVFPYQLDYL TSSNSYEHVE	910 SVWYINRTYL
PFUL TCES SUBTILISIN	PFUL TCES SUBTILISIN	PFUL TCES	PFUL TCES	PFUL TCES	PFUL TCES	PFUL
					•	

Fig. 1 2 (Cont'd)

1050 QMTLDNGNIK 1100 EVYQDTNTSI 1250 EKTFQITVSE 1350 VEITINGTAN 1350 LGVDNETLAL 1400 INEMKAVKIL	1040 PTTTTFDLVV 1090 YSGIIEIRDN 1140 YTLIVKHALT 1240 SEGGVKKTVT 1290 GEYAKYVIIT 1340 FDELYQKALE 1390 RLLPPLRQAY	1030 GYSVRDENGN 1080 TIDRDHPTGV 1130 AEGVLGEARN 1280 IXAGSDEITV 1280 DHVISYSIEE 1330 YSWYRLYSQK 1380 GNIIQYLGDI	1020 KPGVYSIVVH 1070 NESVVVTANI 1120 KADFAVGLTP 1120 PKLAMSSPEA 1270 PKLAMSSPEA 1320 VSILTLNFLG 1370 YYEKALELSE	1010 AEEEVVVEYP 1060 LDKDSIILGS 1110 AKIPITLVID 1210 PEITEEDINE 1310 VTYTIYAGPR 1360 ALSYHEKAKE 1410 EKAIEELEGE
1	1190	1180	1170	>
EKTFQIT	IVKKENFNTL	TKLGSDEITV	NGTVTFTYAP	
1	1240	1230	1220	
115(1140	1130	1120	
LEPVPNATV	YTLIVKHALT	AEGVLGEARN	KADFAVGLTP	
1100	1090	1080	1070	H
EVYQDTNTSI	YSGIIEIRDN	TIDRDHPTGV	NESVVVTANI	
1050	1040	1030	1020	1010
QMTLDNGNIK	PTTTTFDLVV	GYSVRDENGN	KPGVYSIVVH	AEEEVVVEYP
1000		980	970.	960
NLVALDGNPT	LDLYLYDSKG	IGNPSVPNSD	PEGTAELKIR	GEFFIKGIEV

Fig. 13



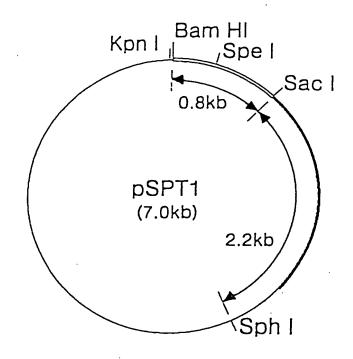
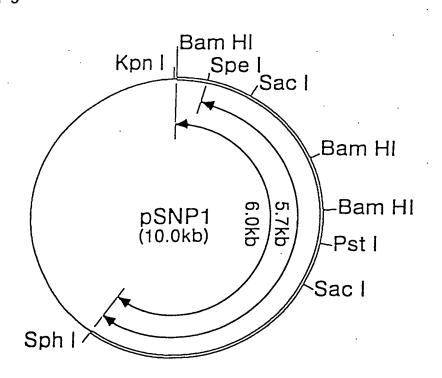


Fig. 15



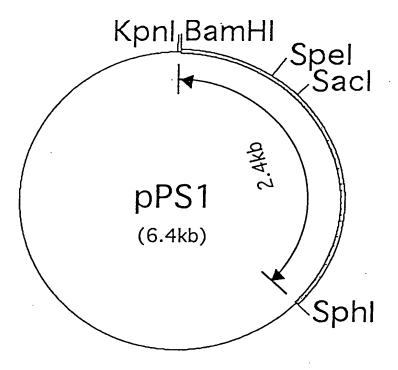
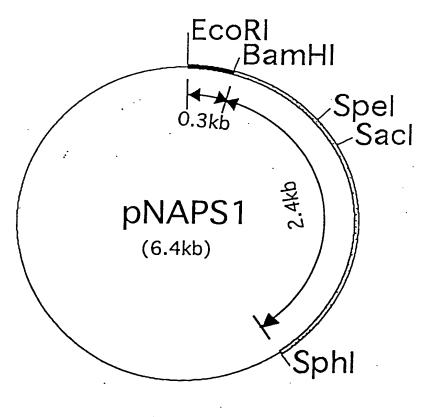


Fig. 17



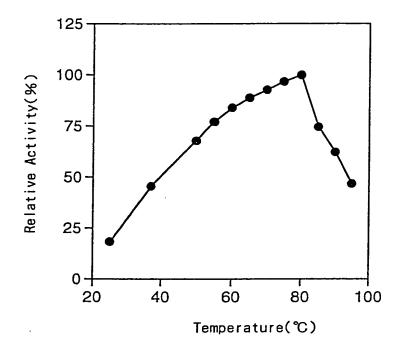
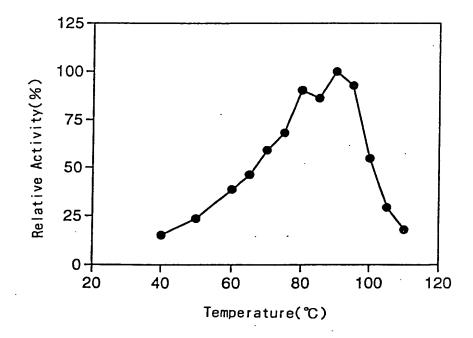
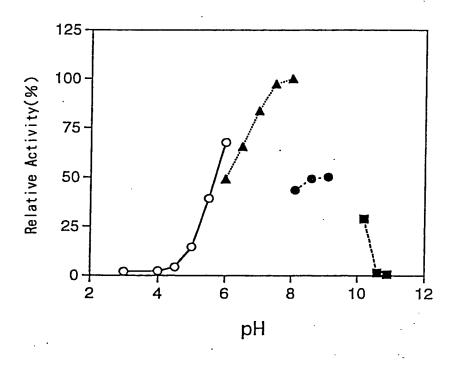


Fig. 19



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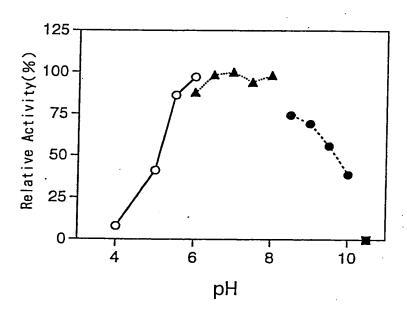
Sodium acetate buffer

Sodium phosphate buffer

Sodium borate buffer

Sodium phosphate-sodium hydroxide buffer

Fig. 21



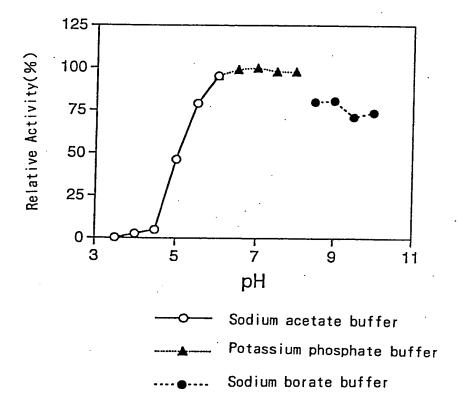
----- Sodium acetate buffer

Potassium phosphate buffer

---- Sodium borate buffer

----■--- Sodium phosphate-sodium hydroxide buffer

Fig. 22



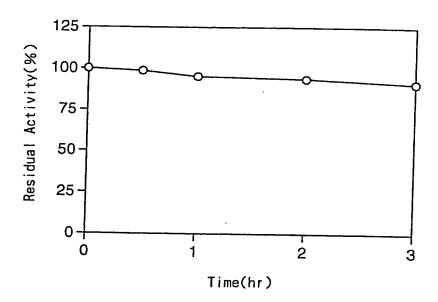
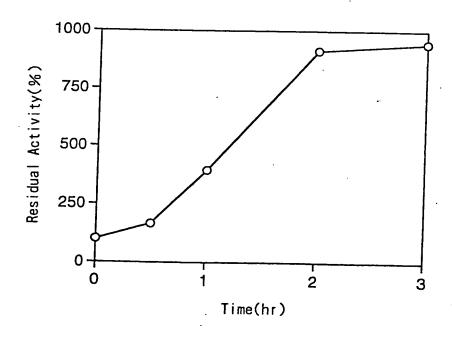


Fig. 24



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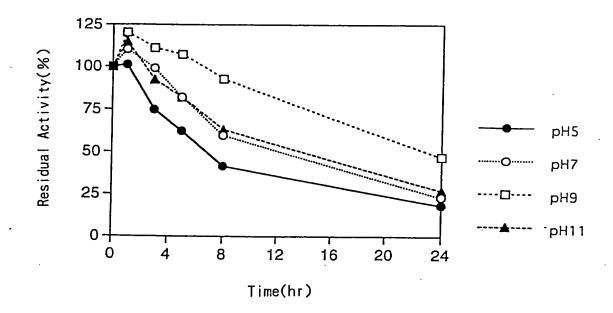


Fig. 26

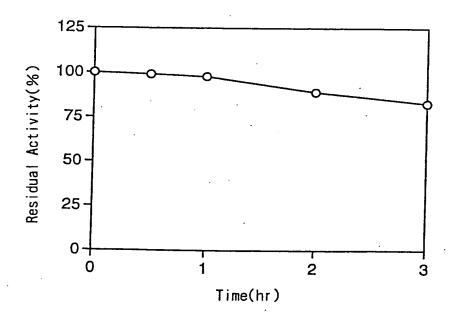
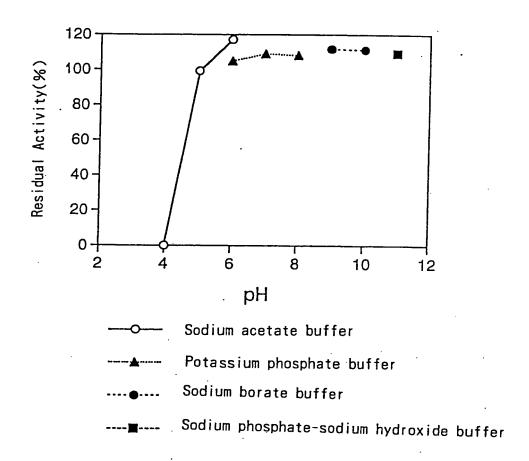


Fig. 27



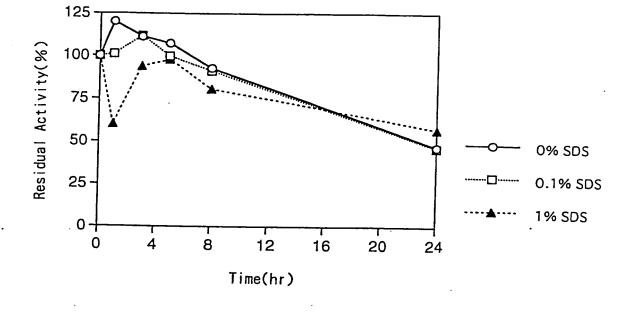


Fig. 29

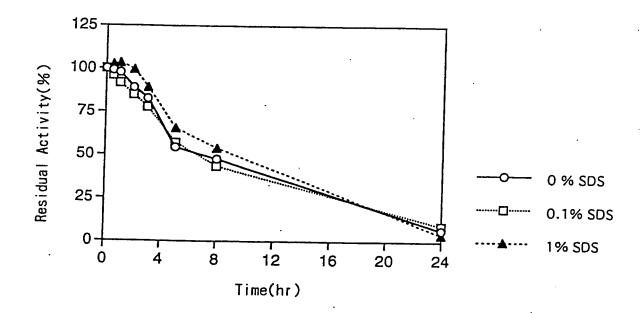
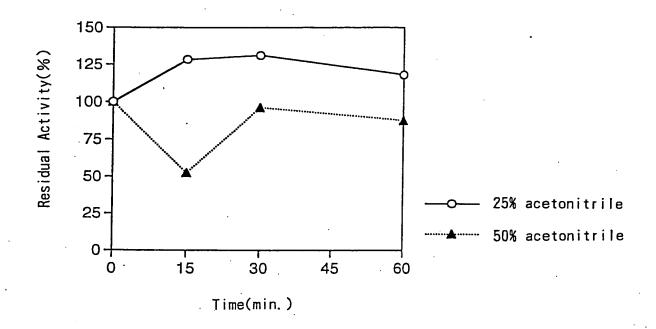


Fig. 30





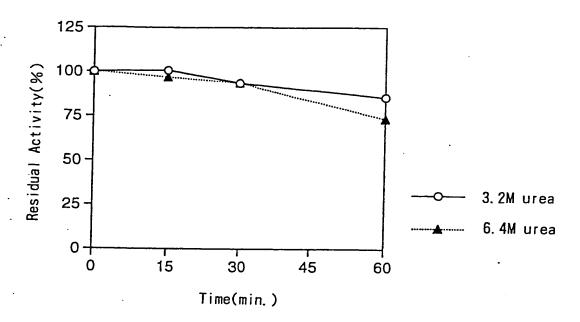
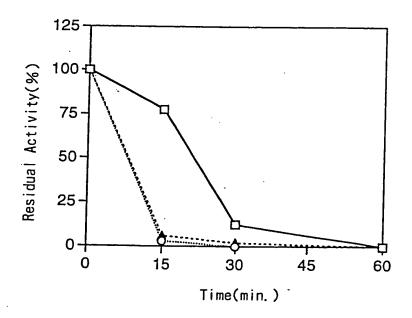


Fig. 32



1M guanidine hydrochloride

-----O----- 3.2M guanidine hydrochloride

···▲··· 6.4M guanidine hydrochloride